

RAPPAHANNOCK RIVER BASIN

01668500 CAT POINT CREEK NEAR MONTROSS, VA

LOCATION.--Lat 38°02'23", long 76°49'38", Richmond County, Hydrologic Unit 02080104, on right bank 200 ft upstream from bridge on State Highway 637, 1.7 mi west of Farmers Fork, 3.8 mi south of Montross, and 11.4 mi upstream from mouth.

DRAINAGE AREA.--45.6 mi².

PERIOD OF RECORD.--September 1943 to current year.

REVISED RECORDS.--WSP 1382: 1944(M), 1945, 1946-51(M), 1952(P), 1953-54(M). WSP 2103: Drainage area. WDR VA-94-1: 1979(P), 1985(M), 1992(M).

GAGE.--Water-stage recorder. Datum of gage is 3.04 ft above sea level. Prior to Aug. 19, 1953, nonrecording gage near right bank at downstream side of highway bridge at same datum.

REMARKS.--No estimated daily discharges. Records good. Prior to 1980, slight diurnal fluctuation at low flow caused by gristmill upstream from station. Maximum discharge, 6,820 ft³/s, from rating curve extended above 1,400 ft³/s. No flow at times in 1943, 1957, 1959-60, 1966, and 1977. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

COOPERATION.--Records were provided by the Virginia Department of Environmental Quality - Water Division.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in September 1935 exceeded 9.3 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges equal to or greater than base discharge of 250 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 9	2000	254	5.23	Feb. 5	0500	*2,620	*8.80
Jan. 24	1200	488	5.87	Mar. 20	0100	439	5.92
Jan. 29	0100	1,360	7.42	Mar. 21	1800	598	6.25

Minimum discharge, 0.63 ft³/s, Oct. 10, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	16	32	41	127	95	94	66	33	27	10	3.1
2	1.6	29	30	33	106	94	99	91	30	22	9.5	2.7
3	1.5	31	26	30	95	116	90	88	29	20	8.4	2.4
4	1.3	25	32	27	370	105	120	77	27	18	7.6	2.2
5	1.2	20	37	25	1890	91	169	73	26	19	6.9	2.0
6	1.0	17	35	23	595	86	109	80	26	17	6.1	1.8
7	.87	53	29	23	315	83	92	70	24	15	5.7	1.5
8	.82	197	24	33	213	98	88	79	23	23	5.6	1.6
9	.68	239	23	46	163	184	128	86	23	70	5.4	1.9
10	.64	186	25	38	139	186	156	78	61	57	7.9	1.8
11	.69	77	35	29	127	118	111	72	79	33	27	1.5
12	.74	39	33	23	137	99	94	80	71	22	30	1.4
13	.68	28	28	24	120	93	87	88	59	17	16	1.3
14	.75	51	23	28	104	89	84	77	56	15	9.1	1.1
15	.94	61	20	37	97	86	85	65	62	14	6.3	.99
16	1.2	45	18	71	93	83	82	58	82	14	5.1	1.1
17	1.4	31	17	62	111	82	145	52	86	14	4.3	.91
18	2.5	24	16	47	149	114	165	47	68	15	4.7	1.1
19	5.5	22	15	38	116	249	115	42	52	18	5.0	1.5
20	9.2	20	15	35	100	315	137	40	44	21	4.4	1.7
21	8.1	20	15	30	96	447	112	38	37	21	3.6	1.9
22	4.7	88	18	27	89	335	92	37	33	18	3.1	2.8
23	3.2	108	44	95	103	204	85	36	31	15	2.8	4.9
24	2.6	66	44	411	200	157	81	37	80	13	2.6	4.5
25	2.9	43	53	234	166	138	76	44	88	12	2.4	3.8
26	6.5	36	52	122	118	126	72	53	55	11	3.3	3.4
27	16	31	50	90	104	119	69	52	36	10	5.3	3.1
28	14	27	75	550	98	112	67	51	30	9.6	10	2.8
29	9.5	24	66	843	---	106	64	46	33	9.0	7.7	2.5
30	6.5	26	64	300	---	100	63	41	31	8.3	5.1	2.5
31	5.7	---	53	174	---	95	---	36	---	8.6	3.7	---
TOTAL	114.61	1680	1047	3589	6141	4405	3031	1880	1415	606.5	234.6	65.80
MEAN	3.70	56.0	33.8	116	219	142	101	60.6	47.2	19.6	7.57	2.19
MAX	16	239	75	843	1890	447	169	91	88	70	30	4.9
MIN	.64	16	15	23	89	82	63	36	23	8.3	2.4	.91
CFSM	.08	1.23	.74	2.54	4.81	3.12	2.22	1.33	1.03	.43	.17	.05
IN.	.09	1.37	.85	2.93	5.01	3.59	2.47	1.53	1.15	.49	.19	.05

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01668500 CAT POINT CREEK NEAR MONTROSS, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1998, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	26.3	37.5	47.1	59.5	65.8	78.0	68.9	51.2	35.6	28.1	28.4	24.5
MAX	134	119	126	175	219	211	164	149	232	128	153	210
(WY)	1980	1980	1984	1978	1998	1994	1983	1990	1972	1995	1969	1979
MIN	1.47	6.70	11.6	12.9	24.1	23.2	20.7	11.1	4.59	1.13	.89	.41
(WY)	1955	1992	1955	1955	1955	1945	1985	1955	1945	1957	1963	1954

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1944 - 1998	
ANNUAL TOTAL	13751.01		24209.51			
ANNUAL MEAN	37.7		66.3		45.8	
HIGHEST ANNUAL MEAN					89.4	
LOWEST ANNUAL MEAN					18.7	
HIGHEST DAILY MEAN	239	Nov 9	1890	Feb 5	2390	Sep 6 1979
LOWEST DAILY MEAN	.57	Sep 27	.64	Oct 10	.00	(a)
ANNUAL SEVEN-DAY MINIMUM	.67	Sep 22	.71	Oct 8	.00	bAug 8 1957
INSTANTANEOUS PEAK FLOW			2620	Feb 5	6820	Aug 20 1969
INSTANTANEOUS PEAK STAGE			8.80	Feb 5	c10.86	Sep 6 1992
INSTANTANEOUS LOW FLOW			.63	dOct 10	.00	(f)
ANNUAL RUNOFF (CFSM)	.83		1.45		1.00	
ANNUAL RUNOFF (INCHES)	11.22		19.75		13.64	
10 PERCENT EXCEEDS	78		127		97	
50 PERCENT EXCEEDS	30		33		30	
90 PERCENT EXCEEDS	1.4		2.4		4.6	

a Many days in 1943 (partial year), 1957, 1959, 1966, and 1977.

b Also Aug. 9, 10, 1957, and Aug. 31 to Sept. 7, 1966.

c Result of Chandlers Millpond dam washout.

d Also Oct. 13, 1997.

f At times in 1943 (partial year), 1957, 1959-60, 1966, and 1977.

